

ABSTRACT OF THE DISCLOSURE

A communication control device comprising a plurality of network processors for performing high-speed communication among these network processors. The communication device
5 connects a plurality of processor interfaces to each other using an internal communication path. Each processor interface is connected to one or a plurality of the network processors. The processor interface comprises a selector for each connected network processor. In one preferred embodiment of this
10 invention, transmission rights are granted to a selector which received a token cell. The selector outputs communication cells received from a network processor onto the internal communication path only when the selector possesses the transmission rights. Having outputted all of the communication
15 cells, the selector outputs the token cell onto the internal communication path. When the token cell is outputted, the selector loses the transmission rights.